

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Original) A method for power control in a communication system employing a Downlink Shared Control Channel (DSCH) and a Forward Access Control Channel (FACH), comprising:

applying power control on the Downlink Shared Control Channel;

deriving power control information from the power control on the Downlink Shared Control Channel; and

applying to the Forward Access Control Channel the derived power control information from the power control on the Downlink Shared Control Channel in order to produce power control on the Forward Access Control Channel.

Claim 2 (Currently amended) The method of ~~any one of claim[[s]]~~ 1 wherein ~~the step of~~ deriving power control information from the power control on the Downlink Shared Control Channel comprises deriving power control information from a radio network control power control function.

Claim 3 (Currently amended) The method of ~~any one of claim[[s]]~~ 1 wherein ~~the step of~~ deriving power control information from the power control on the Downlink Shared Control Channel comprises deriving power control information from a base station power control function.

Claim 4 (Currently amended) The method of ~~any one of claim[[s]]~~ 1 wherein ~~the step of~~ deriving power control information from the power control on the Downlink Shared Control Channel comprises deriving power control information from transport format combination set selection.

Claim 5 (Currently amended) The method of ~~any one of claim[[s]]~~ 1 ~~[[-4]]~~ wherein ~~the step of~~ applying power control information to the Forward Access Control Channel comprises

scheduling a plurality of Forward Access Control Channels in dependence on the derived power control information.

Claim 6 (Currently amended) The method of claim 5 wherein ~~the step of~~ scheduling comprises scheduling the plurality of Forward Access Control Channels based on a signal~~[[/]]-to-~~ interference difference power cost calculation.

Claim 7 (Currently amended) The method of claim ~~5 or 6~~ wherein ~~the step of~~ scheduling comprises scheduling the plurality of Forward Access Control Channels based on fixed signal/interference values.

Claim 8 (Currently amended) The method of claim ~~6 or 7~~ wherein ~~the step of~~ scheduling comprises scheduling the plurality of Forward Access Control Channels based on dynamically updated signal/interference values.

Claim 9 (Currently amended) The method of ~~any one of claim~~[[s]] 1~~[[-8]]~~ wherein ~~the step of~~ applying power control information to the Forward Access Control Channel comprises queueing and serving of mobile stations with similar power requirements on a same Forward Access Control Channel at the same time.

Claim 10 (Currently amended) The method of ~~any one of claim~~[[s]] 1~~[[-9]]~~ wherein ~~the step of~~ applying power control information to the Forward Access Control Channel comprises grouping mobile stations with similar power requirements on a same Forward Access Control Channel.

Claim 11 (Currently amended) The method of ~~any one of claim~~[[s]] 1~~-10~~ wherein the step of applying power control information to the Forward Access Control Channel comprises grouping mobile stations with similar power requirements in a same scheduling interval of a same Forward Access Control Channel.

Claim 12 (Currently amended) The method of ~~any one of claim[[s]] 1-11~~ wherein the system is a time division duplex communication system.

Claim 13 (Currently amended) The method of ~~any one of claim[[s]] 1-12~~ wherein the system comprises a UMTS wireless system.

Claim 14 (Currently amended) The method of claim 1-13 wherein the system comprises a 3GPP system.

Claim 15 (Currently amended) An ~~arrangement~~apparatus for power control in a communication system employing a Downlink Shared Control Channel (DSCH) and a Forward Access Control Channel (FACH), the ~~arrangement~~apparatus comprising:

- means for applying power control on the Downlink Shared Control Channel;
- means for deriving power control information from the power control on the Downlink Shared Control Channel; and
- means for applying to the Forward Access Control Channel the derived power control information from the power control on the Downlink Shared Control Channel in order to produce power control on the Forward Access Control Channel.

Claim 16 (Currently amended) The ~~arrangement~~apparatus of ~~any one of claim[[s]] 15~~ wherein the means for deriving power control information from the power control on the Downlink Shared Control Channel comprises means for deriving power control information from a network control power control function.

Claim 17 (Currently amended) The ~~arrangement~~apparatus of ~~any one of claim[[s]] 15~~ wherein the means for deriving power control information from the power control on the Downlink Shared Control Channel comprises means for deriving power control information from a base station power control function.

Claim 18 (Currently amended) The ~~arrangement~~apparatus of ~~any one of claim[[s]]~~ 15 wherein the means for deriving power control information from the power control on the Downlink Shared Control Channel comprises means for deriving power control information from transport format combination set selection.

Claim 19 (Currently amended) The ~~arrangement~~apparatus of ~~any one of claim[[s]]~~ 15-18 wherein the means for applying power control information to the Forward Access Control Channel comprises means for scheduling a plurality of Forward Access Control Channels in dependence on the derived power control information.

Claim 20 (Original) The ~~arrangement~~apparatus of claim 19 wherein the means for scheduling comprises means for scheduling the plurality of Forward Access Control Channels based on signal/interference difference power cost calculation.

Claim 21 (Currently amended) The ~~arrangement~~apparatus of claim 19 ~~or 20~~ wherein the means for scheduling comprises means for scheduling the plurality of Forward Access Control Channels based on fixed signal/interference values.

Claim 22 (Currently amended) The ~~arrangement~~apparatus of claim 19 ~~or 20~~ wherein the means for scheduling comprises means for scheduling the plurality of Forward Access Control Channels based on dynamically updated signal/interference values.

Claim 23 (Currently amended) The ~~arrangement~~apparatus of ~~any one of claim[[s]]~~ 15-22 wherein the means for applying power control information to the Forward Access Control Channel comprises means for queueing and serving of mobile stations with similar power requirements on a same Forward Access Control Channel at the same time.

Claim 24 (Currently amended) The arrangementapparatus of ~~any one of claim~~[[s]] 15-23 wherein the means for applying power control information to the Forward Access Control Channel comprises means for grouping mobile stations with similar power requirements on a same Forward Access Control Channel.

Claim 25 (Currently amended) The arrangementapparatus of ~~any one of claim~~[[s]] 15-25 wherein the means for applying power control information to the Forward Access Control Channel comprises means for grouping mobile stations with similar power requirements in a same scheduling interval of a same Forward Access Control Channel.

Claim 26 (Currently amended) The arrangementapparatus of ~~any one of claim~~[[s]] 15-25 wherein the system is a time division duplex communication system.

Claim 27 (Currently amended) The arrangementapparatus of ~~any one of claim~~[[s]] 13-26 15 wherein the system comprises a UMTS wireless system.

Claim 28 (Currently amended) The arrangementapparatus of claim 13-27 15 wherein the system comprises a 3GPP system.

Claim 29 (Currently amended) A network control element comprising the arrangementapparatus of claim 16 ~~or any one of claims 18-28 when dependent from claim 16~~.

Claim ~~[[26]]~~ 30 (Currently amended) A base station element comprising the arrangementapparatus of claim 17 ~~or any one of claims 18-28 when dependent from claim 17~~.